BRUHATH BANGALURE MAHANAGAR PALIKE

Name of Work: Asphalting to roads at Defense colony and surrounding areas in ward no.14 Bagalagunte

Job Code: 014-19-000023 — **Est. Cost.250.00 Lakh**

Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
Removing and Refixing stone slabs of drains and pointing in C.M (1:3).(Pg:27, It.No-5.33, PWD SR: 2018-19)								
Defense colony Cross road LHS		2	120	0.90		216.00		
Defense colony 4th main road		2	175	0.90		315.00		
	Sqm					531.00	111.30	**59100.3**
Removing and reseting of Kerb stone(Pg:270, It.No-37.57, PWD SR: 2018-19)								
Defense colony Cross road LHS		1	120			120.00		
Defense colony 4th main road		1	143			143.00		
	RMT					263.00	104.94	**27599.20**
Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter (Pg:143, It.No-19.1, PWD SR: 2018-19)								
Desilting								
Defense colony Cross road		2	164	0.60	0.50	98.40		
Defense colony 4th main road		2	190	0.60	0.50	114.00		
Defense colony 4th Cross road		2	70	0.60	0.50	42.00		
Defense colony 4th A Cross road		2	60	0.60	0.50	36.00		
Defense colony 3rd Cross road		2	70	0.60	0.50	42.00		
Defense colony 2nd Cross road		2	70	0.60	0.60	50.40		
6th main road		2	140	0.60	0.60	100.80		
5th cross road		2	260	0.60	0.60	187.20		
Asphalting								
Defense colony Cross road		2	164	1.20	0.30	118.08		
Defense colony 4th main road		2	190	1.20	0.30	136.80		
Defense colony 4th Cross road		2	70	1.20	0.30	50.40		
Defense colony 4th A Cross road		2	60	1.20	0.30	43.20		
Defense colony 3rd Cross road		2	70	1.20	0.30	50.40		
Defense colony 2nd Cross road		2	70	1.20	0.30	50.40		
6th main road		2	140	1.20	0.30	100.80		
5th cross road		2	260	1.20	0.30	187.20		
4th A cross road		2	210	1.20	0.30	151.20		
10th cross road		2	135	1.20	0.30	97.20		
10th cross road		2	257	1.20	0.30	185.04		
	Cum					1840.92	235.76	**434015.30**
4 Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete. I. By Manual Means .A. Lime Concrete, cement concrete grade M-10 a (Pg:143, It.No-19.1, PWD SR: 2018-19)								
Defense colony 4th main road		2	190	0.60	0.60	136.80		
5th cross road		2	260	0.60	0.60	187.20		
10th cross road		2	210	0.60	0.60	151.20		

	Cum					463.68	579.20	**268563.5**
	KSRRB M2900- PCC M10 in Foundation KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications. MORTH Specification No. 408 (Pg:254, It.No-34.1, PWD SR: 2018-19)							
	Defense colony 4th main road	2	190	0.90	0.10	34.20		
	5th cross road	2	260	0.90	0.10	46.80		
	10th crossroad	2	210	0.90	0.10	37.80		
	Cum					**115.92**	4479.56	**519270.6**
6	Providing laying plain/ reinforced cement concrete for side drain using M20 nominal mix concrete with OPC at 3000kgs. with 20mm and downsize granite metal coarse aggregates at 0..69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for waiis and bottom including centering, shuttering ,cost of materials hom of machinery ,curing etc., complete excluding cost of steel as per morth specification No. 1500, 1700, 2200.including ,cost of materials labour .HOM complete as per specification -do-Wall & bottom thickness 15cm (Pg:271, It.No-37.59.2 PWD SR: 2018-19)							
	For Drain Bed							
	Defense colony 4th main road	2	190	0.90	0.15	51.30		
	5th cross road	2	260	0.90	0.15	70.20		
	10th crossroad	2	210	0.90	0.15	56.70		
	For Drain wall							
	Defense colony 4th main road LHS	4	190	0.90	0.15	102.60		
	5th cross road	4	237	0.90	0.15	127.98		
	10th crossroad	4	210	0.90	0.15	113.40		
	Cum					521.64	7070.2	**3688099.1**
7	Providing T.M.T. steel reinforcement for R.C,C work including straightening. cutting. bending. hooking. placing in position. lapping and or welding wherever required tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) including cost of materaial ,labour , HOM complete as per specifications. MORTH specifications. No.1600 & 2200-do-TMT Bars Fe 500 (P-239/29.29.2)PWD SR: 2018-19)							
			521.64		70	36.51		
	Ton					36.51	73992.24	**2701456.68**
8	**Providing & laying RCC Drain Slab of 100mm (DATA RATE)**							
	Defense colony Cross road	2	164	0.90		295.20		
	Defense colony 4th main road	2	190	0.90		342.00		
	Defense colony 4th Cross road	2	70	0.90		126.00		
	Defense colony 4th A Cross road	2	60	1.20		144.00		
	Defense colony 3rd Cross road	2	70	0.90		126.00		
	Defense colony 2nd Cross road	2	70	0.90		126.00		
	6th main road	2	140	1.20		336.00		
	5th cross road	2	250	0.90		450.00		
	Cum					1943.00	2208.00	**4290144.0**
9	Providing and fixing pre cast solid concrete kerb size 450x150x500 mm out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting ete., complete (Pg:27, It.No-5.29.2 PWD SR: 2018-19)							
	Defense colony Cross road	2	50	(50/0.45)		222.22		
	Defense colony 4th main road	2	170	(170/0.45)		755.56		
	Defense colony Cross road	2	70	(70/0.45)		311.11		
	Defense colony 2nd Cross road	2	50	(50/0.45)		222.22		

	Defense colony 4th Cross road	2	70	(70/0.45)		311.11		
	Defense colony 4th A Cross road	2	60	(60/0.45)		266.67		
	Defense colony 3rd Cross road	2	70	(70/0.45)		311.11		
	Defense colony 2nd Cross road	2	70	(70/0.45)		311.11		
	6th main road	2	124	(124/0.45)		546.67		
	5th cross road	2	277	(277/0.45)		1231.11		
	Nos					4482.00	467.46	**2095155.7**
0	Providing and applying spray painting in two coats (excluding priming c o a t) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.(Pg:124, It.No-15.82 PWD SR: 2018-19)							
	Defense colony Cross road	2	50		0.40	40.00		
	Defense colony 4th main road	2	170		0.40	136.00		
	Defense colony Cross road	2	150		0.40	120.00		
	Defense colony 2nd Cross road	2	50		0.40	40.00		
	Defense colony 4th Cross road	2	120		0.40	96.00		
	Defense colony 4th A Cross road	2	72		0.40	57.60		
	Defense colony 3rd Cross road	2	70		0.40	56.00		
	Defense colony 2nd Cross road	2	70		0.40	56.00		
	6th main road	2	124		0.40	99.20		
	5th cross road	2	277		0.40	221.60		
	Sqm					920.80	58.30	**53682.6**
1	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Pg:180, It.No-24.1 PWD SR: 2018-19)							
	Defense colony Cross road	2	50		0.40	40.00		
	Defense colony 4th main road	2	170		0.40	136.00		
	Defense colony Cross road	2	150		0.40	120.00		
	Defense colony 2nd Cross road	2	50		0.40	40.00		
	Defense colony 4th Cross road	2	120		0.40	96.00		
	Defense colony 4th A Cross road	2	72		0.40	57.60		
	Defense colony 3rd Cross road	2	70		0.40	56.00		
	Defense colony 2nd Cross road	2	70		0.40	56.00		
	6th main road	2	124		0.40	99.20		
	5th cross road	2	277		0.40	221.60		
	Sqm					920.80	84.80	**78083.84**
2	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications.(Pg:180, It.No-24.1 PWD SR: 2018-19)							
	Defense colony Cross road	1	164	5.50		902.00		
	Defense colony 4th main road	1	190	5.50		1045.00		
	Defense colony 4th Cross road	1	70	5.80		406.00		
	Defense colony 4th A Cross road	1	60	5.50		330.00		
	Defense colony 3rd Cross road	1	70	5.20		364.00		
	Defense colony 2nd Cross road	1	70	6.50		455.00		
	6th main road	1	130	6.50		845.00		

5th cross road		1	260	5.00		1300.00		
4th A cross road		1	210	5.50		1155.00		
10th cross road		1	140	5.00		700.00		
10th cross road		1	260	4.50		1170.00		
MEI layout		1	180	7.00		1260.00		
	Sqm					9917.30	5.30	**52561.69**

3 Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (Pg:155, It.No-20.18 PWD SR: 2018-19)

Asphalting								
Defense colony Cross road		2	164	1.20	0.23	90.53		
Defense colony 4th main road		2	190	1.20	0.23	104.88		
Defense colony 4th Cross road		2	70	1.20	0.23	38.64		
Defense colony 4th A Cross road		2	60	1.20	0.23	33.12		
Defense colony 3rd Cross road		2	50	1.20	0.23	27.60		
6th main road		2	130	1.20	0.23	71.76		
5th cross road		2	260	1.20	0.23	143.52		
4th A cross road		2	210	1.20	0.23	115.92		
10th cross road		2	140	1.20	0.23	77.28		
10th cross road		2	260	1.20	0.23	143.52		
MEI layout		2	180	1.20	0.23	99.36		
	Cum					944.47	2001.28	**1890148.9**

4 Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM, WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 (Pg:158, It.No-21.6 PWD SR: 2018-19)

Asphalting								
widneing portion								
Defense colony Cross road		2	164	1.20		393.60		
Defense colony 4th main road		2	190	1.20		456.00		
Defense colony 4th Cross road		2	70	1.20		168.00		
Defense colony 4th A Cross road		2	60	1.20		144.00		
Defense colony 3rd Cross road		2	50	1.20		120.00		
6th main road		2	130	1.20		312.00		
5th cross road		2	260	1.20		624.00		
4th A cross road		2	210	1.20		504.00		
10th cross road		2	140	1.20		336.00		
10th cross road		2	260	1.20		624.00		
MEI layout		2	180	1.20		432.00		
	Sqm					4106.40	29.68	**121878.0**

5 Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting thehot mix to worksite, laying to the required grade, level and alignment, rolling with, smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. (Pg:160, It.No-21.17.3 PWD SR: 2018-19)

Asphalting								
Defense colony Cross road		1	164	1.20	0.05	9.84		
Defense colony 4th main road		1	190	1.20	0.05	11.40		
Defense colony 4th Cross road		1	70	5.80	0.05	20.30		
Defense colony 4th A Cross road		1	60	5.50	0.05	16.50		
Defense colony 3rd Cross road		1	70	5.20	0.05	18.20		
Defense colony 2nd Cross road		1	64	6.50	0.05	20.80		
6th main road		1	130	6.50	0.05	42.25		
5th cross road		1	260	5.00	0.05	65.00		
4th A cross road		1	210	5.50	0.05	57.75		
10th cross road		1	140	5.00	0.05	35.00		
10th cross road		1	260	4.50	0.05	58.50		
MEI layout		1	180	7.00	0.05	63.00		
	Cum					417.62	6371.66	**2660932.6**

Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications (Pg:158, It.No-21.7 PWD SR: 2018-19)

Defense colony Cross road	1	164	1.20		196.80		
Defense colony 4th main road	1	190	1.20		228.00		
Defense colony 4th Cross road	1	70	1.20		84.00		
Defense colony 4th A Cross road	1	60	1.20		72.00		
Defense colony 3rd Cross road	1	70	5.20		364.00		
Defense colony 2nd Cross road	1	70	6.50		455.00		
6th main road	1	130	6.50		845.00		
5th cross road	1	260	5.00		1300.00		
4th A cross road	1	210	5.50		1155.00		
10th cross road	1	140	5.00		700.00		
10th cross road	1	260	4.50		1170.00		
MEI layout	1	180	7.00		1260.00		
			For BC		7709.20		
Sqm			For BM		7709.20		
					15418.40	12.72	**196122.0**

KSRRB M500-19. Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects complete as per specifications. (Pg:162, It.No-21.23.4 PWD SR: 2018-19)

Defense colony Cross road		1	164	1.20	0.04	7.87		
Defense colony 4th main road		1	190	1.20	0.04	9.12		
Defense colony 4th Cross road		1	70	1.20	0.04	3.36		
Defense colony 4th A Cross road		1	60	1.20	0.04	2.88		
Defense colony 3rd Cross road		1	70	5.20	0.04	14.56		
Defense colony 2nd Cross road		1	64	6.50	0.04	16.64		
6th main road		1	130	6.50	0.04	33.80		
5th cross road		1	260	5.00	0.04	52.00		
4th A cross road		1	210	5.50	0.04	46.20		
10th cross road		1	140	5.00	0.04	28.00		
10th cross road		1	260	4.50	0.04	46.80		
MEI layout		1	180	7.00	0.04	50.40		
	Cum					308.37	8244.68	**2542395.5**

Sl No	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
18	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (Pg:182, It.No-24.15 PWD SR:2018-19)								
	For Asphalt road	Sqm							
	Sri Vinayaka temple road		2.5	272.00	0.10		68.00		
	6th A Cross		2.5	128.00	0.10		32.00		
	1st B Cross		2.5	182.00	0.10		45.50		
	3rd B Cross		2.5	178.00	0.10		44.50		
	Havnoor Layout main road		2.5	142.00	0.10		35.50		
	3rd Main road		2.5	273.00	0.10		68.25		
	1st Cross		2.5	105.00	0.10		26.25		
	Cross roads		2.5	200.00	0.10		50.00		
	Cross roads		2.5	231.00	0.10		57.75		
							427.75	454.74	194515.0
	TOTAL								
	GST 12%								**21874083.82**
	PMC 1%								**2624890.06**
	DPR 1%								**250000.00**
	Miscellaneous and unforseen Charges								**250000.00**
									1026.12
								Total	**25000000.00**

CERTIFICATE

1 The Work spot has been inspected and the work found to be necessary

2 The Estimate is prepared as per the PWD SR 2018-19 & the Approved Data Rate

3 The Provision made in estimate are adequate and essential

4 This area comes under BBMP limits.

Asst Engineer
Ward No: 14
BBMP

Asst Executive Engineer
Bagalagunte Sub-division
BBMP

Executive Engineer
Dasarahalli-division
BBMP

ADMINISTRATIVELY SANCTIONED FOR
(Rupees...250.00 lacs (Two Hundred lacs Fifty Thousand)
Under the Head of Account...P-2515 J25
Registered as no EE(D.D.)/AS 231/19-20 Subject to conditions contained in Enclosed Memo No. EE/DD/AS /231/19-20 Dt: 05/03/20

AE. Exe. Eng (DASARAHALLI) BBMP

ನಂ.CE/dz/TS/179/18-19 ದಿನಾಂಕ : 22/02/19
ರೂ. 250.00 lakhs
(Two fifty lakhs only)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ಮುಖ್ಯ ಅಧಿಯುಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.